

## **ABSTRACT**

The disclosure involves a process for the preparation of butadiene and 1-butene. The process includes at least a first catalytic dehydrogenation of n-butane to obtain a gas stream which is followed by at least a second oxidative dehydrogenation to form a second gas stream. The second gas stream is then subjected to distillation and isomeration steps to obtain butadiene and 1-butene.